USSR / Pharmacology, Toxicology. Anticonvulsants Drugs. V

Abs Jour: Ref Zhur-Biol., No 9, 1958, 42332.

Author : Kaverina ... Now Market Commence

Inst : Not Given.

Title : The Anticonvulsive Properties of a Series of N-

replacing B-chlorpropioamides.

Orig Pub: Farmakol. i toksikologiya, 1957, 20, No 4, 20-26.

Abstract: The correlation between the chemical structure and the anticonvulsive action of a series of N-replacing derivatives of J-chlorpriopioamide was studied for the purpose of achieving new active drugs. The anticonvulsive action of the experimental drugs was studied on mice, rats and rabbits with convulsions produced by camphor, corazol, cordiamine, strychinine, picrotoxin, nicotine and arecoline. The ability of the drugs to raise the

Card 1/2

16

Category

: Pharmacology and Toxicology. Ganglionic Blocking

Preparations

Abs. Jour. : Ref Zhur-Biol, No 13, 1958, No 61114

Author

: Kaverina, N. V.

Title

Institut.

: Effects of Certain Ganglionic Blocking Drugs

upon Coronary Circulation

Orig Pub.

: Byul. okaperim. biol. i mod., 1957, 44, No 10,

68-72

Abstract

: The effects of ganglionic blocking drugs upon the outflow of the blood (OB) from the coronary simus was studied in experiments on cats. The preparations were introduced intravenously in doses of 2-10 mg./kg. Tetamon /tetraethylarmonium iodide/ increases OB by 6-40%, and maximally by 60%. Duration of the effect is 10-15 minutes. Intensity of the effect depends on the

dose of the preparation and on the amount of initial blood flow. When the volume of OB is

Card:

1/2 Just Pharmacology Chemotherapy AMS USSE.

# APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210017-0"

Toxicology. Tranquilizers. USSR / Pharmacology.

1 Ref. Zhur + Biologiya, No. 3, 1959, 13767

Abs Jour

Author

: Kaverina, N. V.

Inst Title : The Influence of Some Derivatives of the

Phenotiazine Series on Coronary Blood Circula-

tion.

Orig Pub

: Farmakol. i toksikologiya, 1958, 21, No. 1, 39-43

Abstract

: In acute and chronic experiments, the influence of mepazine (I) and aminazine (II) on the coronary blood circulation in cats was studied by means of ECG. I intravenously introduced in a dose of 2 mg/kg increased the blood outflow from the coronary sinus by 40-50% and lowered the blood outflow from the coronary sinus by 40-50% and lowered the blocd pressure (BP) by 15-20 mm of mercury column. The velocity of blood flow returned

Lab Particular Pharmacology AMS USSR

Card 1/3

#### VIKHLYAYEV, Yu.I.; KAVERINA, N.V.

Pharmacology of chloracizine [with summary in English]. Farm. i toks 22 no.1:28-33 Ja-F 159. (MIRA 12:4)

1. Laboratoriya chastnoy farmakologii (sav. - deystvitel'nyy chlen AMN SSSR prof. V.V. Zakusov) Instituta farmakologii i khimioterapii AMN SSSR.

(MUSCIE RELAXANTS, 2-chloro-10-(3-diethylaminopriopionyl)-phenothiasine, pharmacol. (Rus)) (PHENOTHIAZINE, rel. cpds. same)

#### KAVERINA, N.V.

Effect of analysic drugs on the coronary circulation. Biul.eksp. biol.i med. 47 no.8:67-70 Ag 159. (MIRA 12:11)

1. Iz laboratorii chastnoy farmakologii Instituta farmakologii i khimioterapii (dir. - deystvitel'nyy chlen AMN SSSR V.V. Zakusov)
AMN SSSR, Moskva. Predstavlena deystvitel'nym chlenom AMN SSSR
V.V. Zakusovym.

(CORONARY VESSELS, pharmacol.)
(ANALGESICS AND ANTIPYRETICS pharmacol.)

KAVERINA, N.V.; KISIN, I.Ye.

Methods for studying coronary circulation. Uch.zap.Inst.farm.i khimioter.AMN SSSR no.2:27-47 '60. (MIRA 15:10)

1. Laboratoriya chastnoy farmakologii (zav. - deystv."chlen AMN SSSR prof. V.V.Zakusov).

(CORONARY VESSELS)

#### KAVERINA, N.V.

Effect of analgesic substances on cardiac blood supply. Uch.zap. Inst.farm.i khimioter.AMN SSSR no.2:93-104 '60. (MIRA 15:10)

1. Laboratoriya chastnoy farmakologii (zav. - deystv. chlen AMN 1. Laboratoriya Cimeratoriya SSSR, prof. V.V.Zakusov).
(CORONARY VESSELS) (ANALOFSICS)

KAVERINA, N.V.; KAREVA, G.F.

Effect of adrenaline and noradrenaline on cardiac vessels. Farm.i toks. 23 no.6:516-521 N-D '60. (MIRA 14:3)

1. Laboratoriya chastnoy farmakologii (zav. - deystvitel'nyy chlen AMN SSSR prof. V.V.Zzkusov) Instituta farmakologii i khimioterapii AMN SSSR.

(ADRENALINE) (ARTERENOL)
(CORONARY VESSELS)

### KAVERINA, N.V.

Mechanism of the action of mitroglycerine on the cardiac vessels. Biul. eksp. biol. i med. 49 no. 5:75-78 My '60. (MIRA 13:12)

1. Iz laboratorii chastnoy farmakologii (zav. - deystvitel'nyy chlen AMN SSSR V.V. Zakusov) Instituta farmakologii i khimioterapii AMN SSSR, Moskva. Predstavlena deystvitel'nym chlenom AMN SSSR V.V. Zakusovym.

(NITROGLYCERIN) (CORONARY VESSELS)

#### KAVERINA, N.V.

Effect of analgesic substances on reflex reactions of the coronary vessels. Biul. eksp. biol. i med. 50 no. 11:57-61 N '60. (MIRA 13:12)

1. Iz laboratorii chastnoy farmakologii (zav. - deystvitel'nyy chlen AMN SSSR V.V. Zakusov) Instituta farmakologii i khimioterapii AMN SSSR, Moskva.

(CORONARY VESSEIS) (ANALGESICS)

VIKHLYAYEV, Yu.I.; KAVERINA, N.V.

Chloracizine. Med.prom. 15 no.9:41-44 8 '61.

(MIRA 14:9)

1. Institut farmakologii i khimioterapii AMN SSSR. (PHENOTHIAZINE)

ARTEMENKO, G.N.; KAVERINA, N.V.

Chloracon -- an anti-epileptic drug. Med. prom. 15 no.12:57 D '61. (MIRA 15:2)

1. Institut farmakologii i khimioterapii AMN SSSR. (ANTIGONVULSANTS)

#### KAVERINA, N.V.

Effect of cholinometic substances on coronary circulation. Farm.i toks. 24 no.2:168-172 Mr-Ap '61. (MIRA 14:6)

1. Laboratoriya chastnoy farmakolgoli (zav. - deystvitel'nyy chlen AMN SSSR prof. V.V.Zakusov) Instituta farmakologii i khimioterapii AMN SSSR. (CORONARY VESSELS) (CHOLINE) (PARASYMPATHOMIMETICS)

KAVERINA, Natal'ya Veniaminovna; REZVENTSOVA, G.A., red.; BUKOVSKAYA, N.A., tekhn. red.

[Pharmacology of the coronary blood circulation] Farmakologiia koronarnogo krovoobrashcheniia. Moskva, Medgiz, 1963. 283 p. (MIRA 16:6)

(BLOCD\_CIRCULATION) (PHARMACOLOGY)

#### KAVERINA, N.V.

**建工程工程的特别,在全部产品,在全部企业,在全部企业,在全部企业,在全部企业,在全部企业,在全部企业,在全部企业,不同时,不同时,不同时,不同时,不同时,不同时,不同时** 

Effect of pharmacological substances on the reflex reactions of the coronary vessels caused by stimulation of the cardiac receptors. Vest. AMN SSSR 18 no.1:10-17 \*63. (MIRA 16:2)

1. Institut farmakologii i khimioterapii AMN SSSR. (CORONARY VESSELS) (REFLEXES) (DRUGS—PHYSIOLOGICAL EFFECT)

KAVERINA, N.V.; KISIN, I.Ye.

"Coronary vasodilators" by R. Charlier. Reviewed by N.V. Kaverina, I.E. Kisin. Vest. AMN SSSR 18 no.1:87-88 '63. (MIRA 16:2) (CORONARY VESSELS) (VASODILATORS) (CHARLIER, R.)

#### KAVERINA, N.V.

Effect of pharmacological substances on the nervous regulation of the tonus of coronary vessels. Uch.zap.Inst.farm. i khimioter. AMN SSSR 3:234-246'63. (MIRA 16:9)

1. Department of Fharmacology (Head - prof. V.V.Zakusov, Member of the U.S.S.R. Academy of Medical Sciences) of the Institute of Fharmacology and Chemotherapy of the U.S.S.R. Academy of Medical Sciences.

(NERVOUS SYSTEM, VASOMOTOR) (CORONARY VESSELS)

(NEUROPSYCHOPHARMACOLOGY)

## KUKHANOVA, M.K.; KAVERIN, N.V.

Mechanism suppressing protein synthesis in cells infacted by the Newcastle disease virus. Dokl. AN SSSR 164 no.6:1417-1420 0 165. (MIRA 18:10)

1. Institut molekulyarnoy biologii AN SSSR i Institut virusologii im. D.I.Ivanovskogo AMN SSSR. Submitted November 5, 1964.

ZAKUSOV, V.V.; KAVERINA, N.V.; MARKOVA, G.A.; MITROFANOV, V.S.

Refrect of pharmacological agents on the development of myocardial lesions caused by biogenic substances. Kardiologiia 4 no.4:3-11 J1.Ag \* 64 (MIRA 19:1)

1. Otdel farmakologii Instituta farmakologii i khimioterapii AMN SSSR, Moskva.

KAVERINA, N.V., prof.; & REVA, G.F.; PIDEVICE, I.N.

Pharmacological characteristics of the serotonin-reactive structures of the heart. Farm. i toks. 28 no.5:536-539 (MIRA 18:12)

l. Laboratoriya farmakologii serdechno-sosudistoy sistemy (zav. prof. N.V.Kaverina) Instituta farmakologii i khimioterapii (direktor - deystvitel'nyy chlen AMN SSSR prof. V.V.Zakusov) AMN SSSR, Moskva. Submitted June 22, 1964.

KAVERINA, N.V.; MIRZOYAN, R.S.; ROZONOV, Yu.B.

Mochanism of the action of monoamine oxidase inhibitors on the nervous regulation of coronary circulation. Farm. i take. 28 no.6:689-694 N-D '65. (MIRA 19:1)

l. Laboratoriya farmakologii serdechno-sosudistoy sielemy (zav. - prof. N.V.Kaverina) Instituta farmakologii i khimioterapii AMN SSSR, Moskva.

L 04803-67

ACC NR: AP6022178 SOURCE CODE: UR/0248/66/000/004/0009/0015

AUTHOR: Kaverina, N. V.

ORG: Institute of Pharmacology and Chemical Therapy AMN SSSR, Moscow (Institut farmskologii i khimioterapii AMN SSSR)

Pharmacologic effect on neural regulation of coronary blood circulation

SOURCE: AMN SSSR. Vestnik, no. 4, 1966, 9-15

TOPIC TAGS: pharmacology, central nervous system, autonomic nervous system, nervous system drug, experiment enimal, nerve fiber, cardiovascular system disease, amine

ABSTRACT: This is a survey of work done in experimental animals at the author's laboratory, dealing mainly with the role of free monoment as in the brain tissue. On the assumption that favorable effects exerted by certain stenocardial drugs on coronary blood flow may be related to their central effect on the sympathetic reflex reactions which cause vascular construction, the effect of a number of these stimulants was investigated by two methods: resistography of coronary vessels and electroneurographic recording of tonus and reflex response in cardisc

Card 1/4

UDC: 612.178.014.46

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sympethetic nerves. Separate stimulation of various groups of afferent fibers was used to evaluate particularly reflex discharges in efferent C-fibers. Analgesics (morphine, promedol) at doses of 0.75 mg/kg were found to depress simultaneously vasomotor reflexes and those on coronary vessels as well as reflex response to impulses of afferent C-fibers. To study the involvement of the adrenergic mechanism in these effects, the analgesic effect was studied under conditions of a varying level of catecholamines and serotonin in the brain tissue. Reserpin was first investigated, and intravenous doses of 0.25-0.5 mg/kg were seen fully to depress reflector responses in sympathetic cardiac nerves for 2-3 hours. This seems to parallel the release of catecholamines and serotonin from tissue depots. It was thus assumed that changes in intensity and character of reflex reactions depend on the level of monoamines in brain tissue; the effect of monoamineoxidase inhibitors (MAO) was studied, and it was found that these depress reflector reactions of coronary vessels end the blood pressure following irritation of afferent fibers of somatic nerves, and that they also effect sharp changes in the character of reflex response in the lower cardiac nerve. MAO inhibitors as well es enalgesics will, in the first stage of their effect, selectively depress reflector responses caused by irritation of afferent C-fibers.
This was seen with nialamid at doses of 20-40 mg/kg and lasted up to 96 hours. Two additional series of tests served to confirm the

Card 2/4

L 04803-67

ACC NR: AP6022178

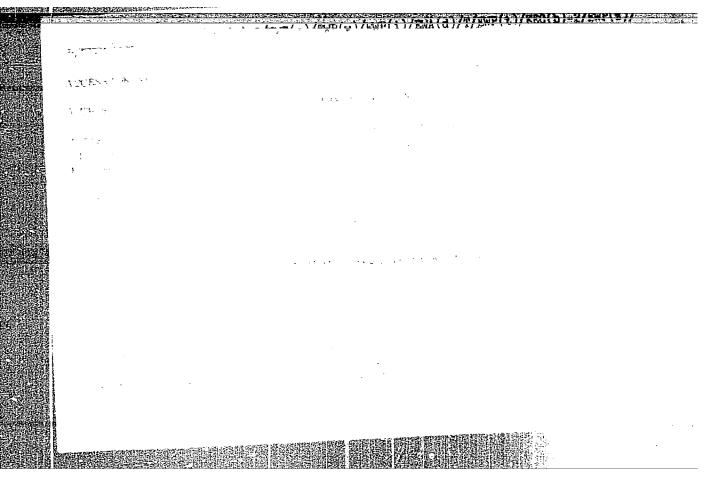
participation of brain monoamines in this effect. In one, it was determined that reflexes affecting coronary vessels and blood pressure as well as reflex responses in cardiac nerves are depressed if norepinephrine or serotonin are introduced into the brain ventricle. The same applies to their precursors, DOPA and 5-oxytryptophan. In a second series, MAO inhibitor effect on vesomotor reflexes and reflex responses in cardiac nerves under conditions of exhaustion of monoamine stores in the brain was investigated; this inhibitory effect is considerably weakened if monosmines are lacking. It was concluded that the following compounds are capable of depressing reflex reactions caused by irritation of spinal afferent fibers and transmitted through the sympathetic nervous system: analgesics (morphine, promedol), MAO inhibitors, reserpin (at the stage of monoamine liberation from tissues), catecholamines and serotonin (intreventricular) and their precursors (DOPA and 5-oxytryptophan). These are apparently causing increase of monoamines in the brain, thereby affecting the decelerating neuron system. Therefore, one therapeutic effect on central regulation of blood circulation would consist in applying substances capable of interfering in the monoamine metabolism of the central nervous system. In artificially created cardiac insufficiency caused by strong activation of the sympathetic nervous system, central stimulants exert the best effect. The effect of excluding peripheral links of the

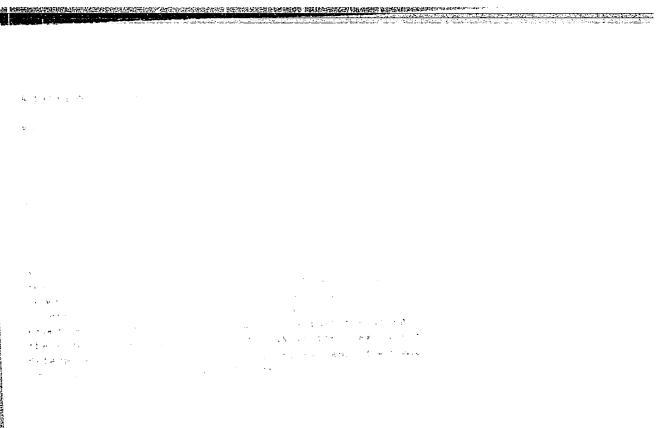
Card 3/4

ACC NR: AP6022178

sympethetic-adrenal system was investigated for experimental cardiovascular spasm. It was found that exclusion of the neurogenic component of vascular tonus will result in a weaker reaction of component vessels to the introduction of neurotropics and myotropics. coronary vessels to the introduction of neurotropics and myotropics. Thus, exclusion of neurobormonal effects on coronary vessels by means of therapeutics may play an important part in treating coronary insufficiency. Orig. art. has: none.

SUB CODE: 06, 07/ SUBM DATE: Ohnov65/ ORIG REF: OOh/ OTH REF: O16





ACCESSION NR: AT4042841

\$/2601/64/000/018/0183/0186

AUTHOR: Levin, G. I., Kaverina, S. N.

TITLE: Coercive force and the "induced" structure of permalloy coatings

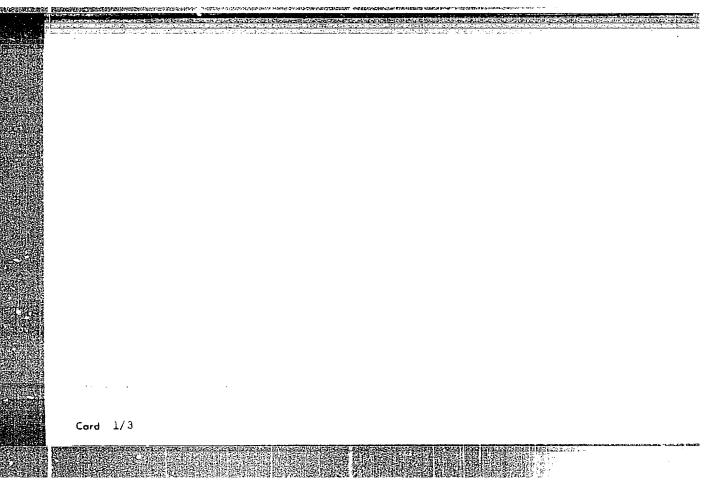
SOURCE: AN UkrSSR. Institut metallofiziki. Sbornik nauchny\*kh rabot, no. 18, 1964. Voprosy\* fiziki metallov i metallovedeniya (Problems in the physics of metals and physical metallurgy), 183-186

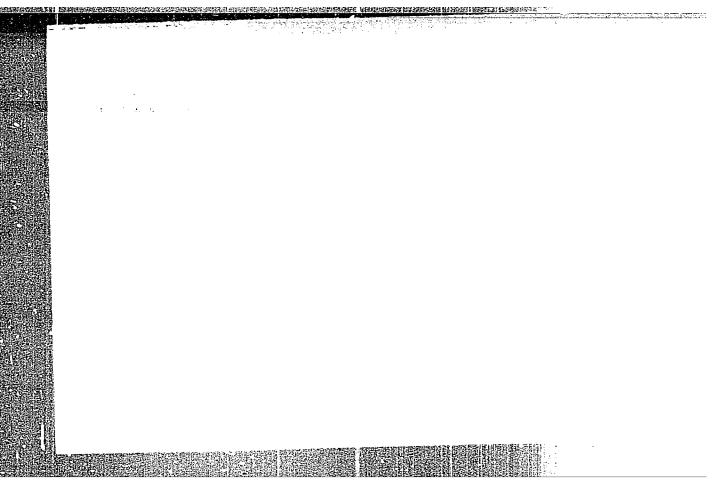
TOPIC TAGS: permalloy coating, coating coercive force, replica analysis method, sublayer surface roughness, coating structure effect, coercive force structural dependence, induced coating structure

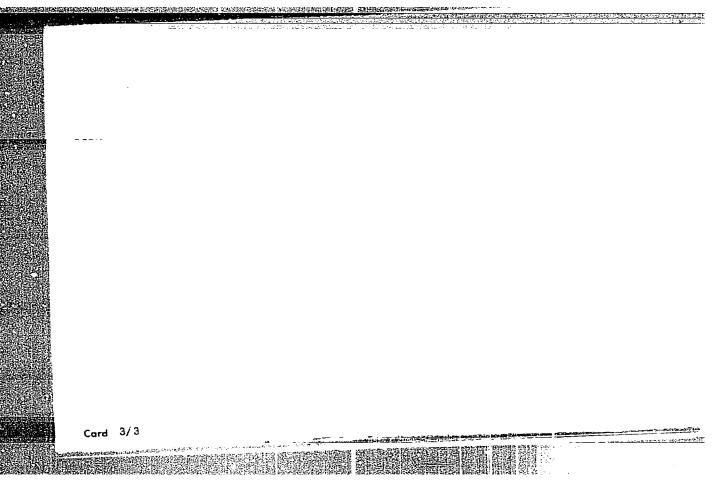
AABSTRACT: Permalloy coatings (60 - 90 gauge) were vacuum deposited from Fe-Ni with 82.5% Ni on aluminum sublayers (sublayer temperature 220-250C) with surface irregularities of 20-500 gauge to establish the quantitative dependence of the coating's coercive force on the degree of irregularity in the sublayer surface. The replica analysis method showed that coatings up to 90 gauge reflect the relief of the sublayer. Measurements showed that

Card

1/2







MELIKOV, Ye.Kh., is olnyayushchiy obyazamoati detenta; ELYETHE, V.I., Inch.

Construction of the basic companent: " nem's jackets according
to the given design. Equal. trudy NET and Political MERA IN: 11)

1. Kafedra tekhnologii shveynogo projectate Moskovskogo
tokhnologicheskogo instituta legkoy projectalemesti.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210017-0"

SRESELI, M.A., prof.; KAVERINA, V.V. (Loningrad)

New method of plastic surgery of the facial nerve. Vop. neirokhir. 27 no.2:47-51 Mr-Ap 163. (MIRA 17:2)

l. Kafedra operativnov khirurgii i topograficheskov anatomii (zav. - M.A. Sreseli) I Leningradskogo meditsinskogo instituta imeni Pavlova.

KAVERINA, V.V.

Features of the external structure of the accessory nerve.

Trudy LNI 2:37-45 '55 (MIRA 11:7)

1. Kafedra operativnoy khirurgii i topograficheskoy anatomii (zav. - prof. N.A. Sereli) Pervogo Leningradskogo meditsinskogo instituta imeni akademika I.F. Pavlova.

(ACCESSORY NERVE)

hAVIdild, V.V. (Leolingrad, K-175, Lesnoy prospekt, 20, kv.34)

Horphological changes observed in plastic surgery on the facial nerve by use of the anterior branch of the second cervical nerve. Arkh. anat., gist. i embr. 46 no.6:3-9 Je \*64.

(MIRA 18:3)

1. Kafedra operativnov khirurgii i topograficheskov anatomii (zav. - prof. M.A. Sreseli) 1-go Leningradskogo meditsinskogo instituta imeni akademika Pavlova.

ALEKSANDROV, N.I.; GEFEN, N.Ye.; SHUL'ZHENKO, V.M.; ALEKSANDROV, P.M.; LEBEDINSKIY, V.A.; KAVERINA-FIRGANG, K.G.; KUZNETSOVA, V.I.; BEKKER, M.L.; VORONIN, Yu.S.

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Search for effective chemical vaccines against some zoonoses. Report No.3:Development of a chemical plague vaccine and its experimental test in animals. Zhur. mikrcbiol., epid. i immun. 4 no.4:66-71 Ap '63. (MIRA 17:5)

KAVLAKIH, I. P.

Kaverkin, I. P. "The internal conversion upon the membrane conditioned by the magnetic radiation of the nucleus," Soobshch, Akad, nauk Gruz. SSR, 1948, No. 8, P. 463-70

SO: U-4934, 29 Oct 53, (Lotopis 'Zhurnal 'nykh Statey, No. 16, 1949)

**拉理斯特别维纳特国际副科科**斯斯特的

KAVEYKIN I.P. USSR/Physics - Low temperature study

FD-1901

Card 1/1

Pub. 146-21/21

Author

Andronikashvili, E. L., and Kaverkin, I. P.

Title

Rotation of helium II at great speeds

Periodical: Zhur. eksp. i teor. fiz. 28, 126-127, January 1955

Abstract

The attempts to verify experimentally the theoretical depth of the parabolic meniscus formed by rotating helium II. He presents the dependence of the magnitude of thermomechanical effect upon the speed of rotation at various temperatures. He concludes that in the transition through the critical speed the phenomenon of superfluidity not only does not disappear, but the quantitative characteristics (e.g. thermomechanical effect and the associated quantity of density ratio) remain unchanged and independent of the speed of rotation. Three references: e.g. E. L. Andronikashvili, Dissertation, Institute of Physical Problems, Academy of Sciences USSR, Moscow, 1948 (in which the experimental apparatus is described).

Institution:

Institute of Physical Problems, Academy of Sciences USSR

Institute of Physics, Academy of Sciences, Georgian SSR

Submitted : June 24, 1954

CIA-RDP86-00513R000721210017-0" **APPROVED FOR RELEASE: 06/13/2000** 

36383 \$/139/62/000/001/006/032 E021/E435

18.1220 AUTHORS:

Sanadze, V.V., Kaverkin, I.P.

TITLE:

Recrystallization in copper-gallium solid solutions

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Fizika.

no.1, 1962, 41-44

Copper-gallium alloys containing 4.30, 8.13 and 11.35 atomic % gallium were prepared in a high frequency furnace using a graphite crucible. After homogenization, strip was rolled with a thickness 30 to 40 microns (99% deformation). Specimens were cut from the strip and heated from 15 sec to 10 min at 200 to 400°C followed by a water-quench. Oxide films formed at higher temperatures were removed by etching and X-ray photographs were taken. Microhardness measurements were also carried out. Microhardness-temperature curves for different holding times were drawn. The beginning of recrystallization corresponded to a fall in microhardness. Holding for longer periods displaced the curves towards the lower temperature. The X-ray measurements confirmed the results. The difference between the temperatures of the beginning and end of Card 1/3

Recrystallization in copper-gallium ...

S/139/62/000/001/006/032 E021/E435

recrystallization increased with increase in concentration of gallium. Fig.3 shows the relation between the temperatures, for beginning and end of recrystallization and the concentration of gallium (in atomic %) for a holding time of 2 minutes. A small concentration of gallium caused a considerable increase in the temperature of the beginning of recrystallization. samples containing 4.3, 8.13 and 11.33 atomic % gallium, the values for the energy of activation calculated from the curve of the beginning of recrystallization were 34, 28 and 30 kcal/mol and the values calculated from the curve for the end of recrystallization were 50, 34 and 47 kcal/mol, respectively. The energy of activation of nucleus-formation calculated from the number of interference spots on the X-ray photograph for the sample Thus, at the beginning containing 4.3% gallium was 27 kcal/mol. of recrystallization nearly all the energy is consumed by nucleus-The energy of activation for growth of crystals was . calculated by subtracting the activation energy for nucleusformation from the activation energy at the end of recrystallization The obtained results are in agreement with and was 23 kcal/mol. Card 2/3

\$/139/62/000/001/006/032

Recrystallization in copper-gallium ... E021/E435

those obtained by H.L.Walker on  $\alpha$ -brass. There are 4 figures and 2 tables.

ASSOCIATION: Gruzinskiy politekhnicheskiy institut imeni

V.I.Lenina (Georgian Polytechnical Institute

imeni V.I.Lenin)

SUBMITTED: December 20, 1960

100 100 12 ani; Ca ct.;

Fig.3.

Card 3/3

## KAVERKIN, I.P.

Growth of crystals in the recrystallization of copper. Trudy GPI [Gruz.] no.6:137-139 '61. (MIRA 16:4) (Copper crystals—Growth)

L 8173-66 EWT(1)/EWA(h)

ACC NRI AP5025704

SOURCE CODE: UR/0286/65/000/018/0050/0050

AUTHOR: Kaverkin, I. Ya.

ORG: none

YO C

TITLE: A frequency spectrum analyzer. Class 21, No. 174709 [announced by All-Union Scientific Research Institute of Electric Measurement Instruments (Vsesoyuznyy nauchno-issledovatel skiy institut elektroizmeritel nykh priborov)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, nc. 18, 1965, 50

TOPIC TAGS: analog digital converter, frequency analyzer, frequency spectrum, information analysis, tuning device, spectrum analyzer

ABSTRACT: This Author Certificate presents a frequency spectrum analyzer containing a heterodyne mixer, intermediate frequency filter, intermediate frequency amplifier, detector, motor, control unit, and a recording device (see Fig. 1). The analyzer is designed to record the results in digital form, to reduce automatically the excess information in the analysis process, and to obtain code equivalents of the results which can be used as the input to digital devices. The output of the analyzer's detector is connected to a logic device and also, via a switch and through a delay line, to an analog-digital converter. The output of this converter is connected to a printing device. The control unit is connected, via a delay circuit, to the cycle

Card 1/2

UDC: 621.317.353

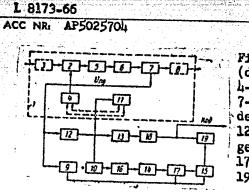


Fig. 1. 1- analyzing part of the instrument (dotted line); 2- mixer; 3- input amplifier; 4- heterodyne; 5- filter; 6- amplifier; 7- detector; 8- DC amplifier; 9- logic device; 10- control unit; 11- motor; 12- switch; 13- delay line; 14- cycle pulse generator; 14- counter; 16- delay line; 17- switch; 18- analog-digital converter; 19- digital printing device

pulse generator. The output of the generator is connected (via a switch of the logic device) to a pulse counter. To isolate automatically the moment of tuning the analyzer to the maximum of the frequency component, the logic device in the analyzer contains two differentiating elements. The first differentiating element is connected to the detector. The output of the detector is connected through an amplifier-clipper to the second differentiating element. The output of the second differentiating element is connected with the diode clipper for shaping the controlling pulse used for printing. Orig. art. has: 1 figure.

SUB CODE: DP, EC/

SUBM DATE: 24Jun64

nw Card 2/2

KAVAIEROV, G.I.; KAVERKIN, I.Ya.; SOKOLOV, S.S.

Definition of the concept of mensuration. Izm.tekh. no.8:1-3
Ag '62. (Mira 16:4)

## "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210017-0

KAVERKSIS, I.I.

Standardization and interchangeability of elements. Trudy MIEI no.152152.154 '61. (MIRA 14:12)

1. Glavnyy konstruktor Instituta proyektirovaniya gorodskogo i sel. skogo khozyaystva Litovskoy SSR.

(Construction industry)

SANADZE, V.V.; KAVERKIN, I.P.

Recrystallization in copper-gallium solid solutions. Izv.vys.ucheb. zav.; fiz. no.1:41-44 '62. (MIRA 15:6)

1. Gruzinskiy politekhnicheskiy institut imeni V.I. Lenina.
(Copper-gallium alloys)
(Crystallization) (Solutions, Solid)

PUGACHEV, A.N., agronom; KAVERNIKOV, N., starshiy agronom

Partial damages and quality of grain seeds. Zemledelie 27 no.7: 81-83 Jl '65. (MIRA 18:7)

1. TSentral'naya mashincispytatel'nava stantsiya Vsesoyuznogo ob"yedineniya "Soyuzsel'khoztekhnike" (for Fugachev).

2. Brestskoye rayonnoye proizvodstvennoye upravleniye sel'skogo khozyaystva (for Kavernikov).

AUTHORS:

Kasatochkin, V. I., and Kaverov, A. T.

20-117-5 31/54

TITLE:

The Kinetics and the Mechanism of the Homogeneous Graphitization of Carbon (Kinetika i mekhanizm gomogennoy grafitatsii ugleroda).

PERIODICAL:

Doklady AN SSSR, 1957, Vol. 117, Nr 5, pp. 837-840 (USSR).

ABSTRACT:

The present paper furnishes the results of the X-ray investigation of the kinetics and of the mechanism of the graphitization of cracking pyrolytic petroleum coke subject to isothermal conditions at temperatures of 2000, 2150, 2420 and 2800°C. The graphitization took place in a furnace with a graphite heater in an atmosphere of nitrogen and argon. According to the duration of the isothermal treatment in the furnace (hkl) bands appear in the roentgenographs, the intensity and acuteness of which increases with an increasing duration of the treatment. At the same time, the half width of the (hkl) bands and of the (OOL) bands decreases. These modifications of the roentgenographs indicate an azimuthal orientation of the packets of the parallel basic lattices together with the occurrence and a further perfection of the three-dimensional orderliness of the carbon. Besides, a decrease of the distance d between the planes in accordance with theoretical principles is observed, which is also connected with the azimuthal orientation of the carbon layers to

Card 1/2

APPROVED FOR RELEASE AGAILA/2000 HomCIA-BDP86-00513R000721210017-0" of Carbon.

wards a more compact packing. The authors here give the relation  $S = \Delta d/\Delta_0 = (3.425 - d_{0.02})/0.069$  for the measure S of the orderliness. A denoting the reduction of the distance between the planes, and  $\Delta_0$  denoting the complete interval of the modifications of  $d_{0.02}$  at the transition from non-graphitisated carbon to an extremely graphitisated carbon. This quantity S has a statistical character. The non-isothermal behaviour of the samples is taken into account by a coorection factor. The constants of the velocity of isothermal graphitization at different temperatures are compiled in a table. The mean experimental value of the activation energy is almost the same in the case of cokes and amounts to  $A = 92 \pm 5$  kkal/gramatom. This relatively high value speaks in favour of the fact, that the kinetics of the graphitization depends upon the chemical process. There are 4 figures, 1 table, and 4 references, 2 of which are Slavic

ASSOCIATION:

Institute for Mineral Fuels, AS USSR (Institut goryuchikh isko-

payemykh Akademii nauk SSSR).

PRESENTED:

July 13, 1957, by A. A. Skochinskiy, Academician.

SUBMITTED: July 12, 1957.

Card 2/2

SOV/24-58-5-26/31

AUTHORS: Zamoluyev, V. K., Kaverov, A. T. and Kasatochkin, V.I.

(Moscow)

TITLE: Thermo-physical Properties in the Process of Homogeneous

Graphitisation of Carbon (Teplofizicheskiye svoystva v

protsesse gomogennoy grafitizatsii ugleroda)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh

Nauk, 1958, Nr 5, pp 131-133 (ÚSSR)

ABSTRACT: The results are described of investigations of the heat

capacity, the temperature and heat conductivity and also of X-ray determination of the degree of graphitisation of the products of heat treatment of petroleum coke under isothermal conditions with various heating times at the

temperatures 1800, 2000, 2150, 2300, 2400, 2600 and 2800°C. The initial petroleum cracking coke had a density of

1405 g/m<sup>3</sup>, an ash content of 0.08% and a yield of volatiles of 5.13%. The graphitisation was effected in a furnace with a graphite heater in an atmosphere of nitrogen and argon, whereby the temperature was regulated by means of a step-

transformer so that a given temperature was maintained within + 25°C. The results are graphed in Figs 1 and It was found that the heat conductivity is determined The results are graphed in Figs 1 and 2.

Card 1/2 predominantly by the dimensions of the monolayers and also

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SOV/24-58-5-26/31

Thermo-physical Properties in the Process of Homogeneous Graphitisation of Carbon

by the valency bonds between adjacent "crystallites" and depends little on the degree of perfection of the crystal lattice of the graphite. It is concluded that for obtaining carbon-graphite materials with a relatively high thermal conductivity it is not necessary to carry out graphitisation and it is sufficient to effect the heat treatment of petroleum coke up to the initial stages of graphitisation. V. S. Shorstkin and T.V.Panfilov participated in the experimental work.

There are 2 figures and 5 references, 4 of which are Soviet, 1 English.

SUBMITTED: July 17, 1957

Card 2/2

AUTHORS:

Kasatochkin, V. I., Kaverov, A. T. The Additional State of the Property of the State of the

507/20-120-5-21/67

TIPLE:

The Electric Properties and Structure of the Transitional sormo ef boskon (Wektrionentiya avoyatva i struktura pera-

khodnykh ferm uglarode)

PERIODICAL:

voklady Akademii neuk 3828, 1955, Vol. 100, Sr 5, pp.1007-1010

(USSR)

ABSTRACT:

In this paper the results of an experimental investigation of the theme a.s.f., of the electric registance and of the atructure of transitional forms from "operations applied" to graphite are given. These forms are produced to a high-temperstano traslacat of different carbon samples. A homogeneous twensition from the "emorphone derbon" to graphite was observed in sotroleuz cokes, in minoral comis and in a few other or show maples of telperatures of 2000 - 26000. The notice of this process is escentially a successive stdeathal orientation of the parallel levers formed in the thormal destruction of lateral earbon chains, Humerical data concerning the reduction of the distance between the layers are given. The damples sere reduced by an isothermal annealing for dif-

Card 1/3

The Electric Properties and Structure of the Transitional Forms of Carbon

ferent periods of petroleum cokes in a furnace in a nitrogen current at different temperatures. The positive sign of the coefficient a of the therma r.m.f. confirms the semi-conductor properties and the hele aschanism of electric conduction in the sect samples within the antire temperature interval, whereas in petroleum cokes this temperature range is limited by 1600 and 2800°. At t > 2000° a and the specific electric positiones a decrease as the distance between the layers in the homogeneous graphitization of coke. Some numerical data are given. Relations of the type t = a + b lg of and to = 4/0 + B exist between a and the specific electric conductivity. The change of a in the une-crystallization stage can be explained by the following two processes in the thermal treatment: 1) a growth of the carbon layers and 2) A destruction of the lateral curbon chains. There are 4 figures, table, and 8 references, 4 of which are Soviet.

Card 2/3

The Electric Procesties and Samueture of the Francisional Forms of Carbon.

ASSOCIATION: Institut porvachish recommends Akademii menk Scall
(Institute of Mineral Fuels 1998)

Principal: Polarumy 11, 1998, 2, 1, 1889, 1, 1889, 1, 1889, 1, 1889, 1, 1889, 1, 1889, 1, 1889

1. Carbon-Phase studies 2. Carbon-Electrical properties
3. Carbon-Structural analysis 4. Carbon-Temperature factors

Card 3/3

SOURCE STATE

## "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210017-0

21(1)

507/89-7-3-19/29

AUTHORS:

Kasatochkin, V. I., Zamoluyev, V. K., Kavernov, A. T.

TITLE:

The Relationship Between the Thermophysical Properties and the Atomic-molecular Structure of Carbon in Homogeneous

Graphitization

PERIODICAL:

Atomnaya energiya, 1959, Vol 7, Nr 3, pp 272-275 (USSR)

ABSTRACT:

The following properties of a cracked petroleum coke are experimentally determined: Specific heat, temperature conductivity, thermal conductivity, and degree of graphitization, the samples being investigated under various isothermal conditions and temperatures. The initial material had a density of

1.405 g/cm<sup>3</sup>, a salt content of 0.08%, and a yield of volatile substance of 5.13%; a volume weight of 0.50 - 0.56 g/cm<sup>3</sup>, and a grain composition within the range of 0 - 0.5 mm. Graphitization was carried out in a graphite furnace in nitrogen— or argon atmosphere. The degree of graphitization was radiographically measured according to reference 4 from the distance between layers. The X-ray pictures of the graphitization products were produced in cylindrical 70 and 43 mm chambers by means

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of filtrated copper- and iron radiation. The specific heat

SOV/89-7-3-19/29
The Relationship Between the Thermophysical Properties and the Atomic-molecular Structure of Carbon in Homogeneous Graphitization

and the temperature conductivity coefficient were measured at 20 - 25°C according to references 5 and 6. The results obtained by parallel experiments deviated from each other by not more than 1%. From the specific heat and the temperature conductivity coefficient, the thermal conductivity coefficient was calculated. The measuring results are shown graphically, viz.: variation of the distance between layers d (002)

depending on the isothermal graphitization time; variation of specific heat and of the temperature conductivity coefficient depending on the isothermal graphitization time (in both cases the latter amounted to 10 180 min); variation of the specific heat and of the temperature conductivity coefficient and the degree of graphitization depending on graphitization temperature (1100 2800°C); relationship between specific heat, temperature conductivity coefficient, thermal conductivity coefficient and degree of graphitization. The endeavor is made to give a physical interpretation of the deviations of the curves from the linear course. On the basis of the results obtained it is possible to produce various

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The Relationship Between the Thermophysical Properties and the Atomic-molecular Structure of Carbon in Homogeneous Graphitization

carboniferous substances having certain definite thermo-physico properties from petroleum-coke. There are 4 figures and 9 references, 7 of which are Soviet.

SUBMITTED: November 21, 1957

Card 3/3

RELEASE: 06/13/2000 CIA-RDP86-00513R000721210017-0"

s/020/60/135/001/023/030 B004/B056 V. I., Zamoluyev, V. K., Kaverov, A. T., and only 2107, 2112, 2312 The Thermophysical Properties of the Transition Forms of 17,4313 Kasatochkin 11.5100 Usenbayev, K. AUTHORS: Doklady Akademii nauk SSSR, 1960, Vol. 135, No. 1, TEXT: The authors give a report on the determination of the specific heat a report on the determination of the specific heat a report on the determination of the specific heat a report on the determination of the specific heat a report on the determination of the specific heat are not the determination of the specific heat are not the specific heat are not the specific heat are not the determination of the specific heat are not heat are not the specific heat are not he TEXT: The authors give a report on the determination of the specific he cop, of the temperature coefficient a of thermal conductivity and of the TITLE: thermal conductivity  $\lambda$  of the transition forms of carbon, obtained by thermal conductivity  $\lambda$  of the transition forms of carbon black to heating petroleum coke. channel black, and thermal carbon black to PERIODICAL: thermal conductivity A of the transition forms of carbon, obtained black, and thermal carbon black to heating petroleum coke, channel black, and thermal carbon of heating petroleum coke, and thermal carbon of heating petroleum coke, and thermal carbon of heating of heating and the perfectives of heating the perfectives of heating the perfective of heating the heating petroleum coke, channel black, and thermal carbon black to temperatures of between 1000 and 30000c in nitrogen- or argon 7). X was and a were determined according to C. M. Kondratives (Ref. 7). X temperatures of between 1000 and 3000oc in nitrogen- or argon atmosphere. op and a were determined according to G. M. Kondrat'yev (Ref. 7), A was calculated according to the equation  $\lambda = c_{pa\beta}$  ( $\beta = weight$  by volume). The measurement results for cp and a are represented in Figs. 1,2, the

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The Thermophysical Properties of the Transition Forms of Carbon

S/020/60/135/001/023/030 B004/B056

thermostable =C=C=C= bonds between the carbon layers up to 3000°C. In channel black,  $c_p$  is low up to about 1300°C, it has a maximum at 1700°C, whereas between 2700 and 3000°C,  $c_p$ , a and  $\lambda$  fall. Channel black does not crystallize,  $\gamma_{max}$  = 0.09. Also in this case the cause is a (denser) spatial network of bonds, formed by the splitting off of oxygen-containing radicals and the forming of allene-carbon chains between the carbon layers. In fossile coals, a melting of the spatial network of bonds occurs at low temperatures similar as in the case of organic polymers. The properties of the carbon materials thus depend on the polymeric character of their structure and on the nature of the spatial network of bonds. Only for  $\gamma$  = 1 there is no spatial network of bonds. There are 4 figures, 1 table, and 12 references: 11 Soviet and 1 British.

ASSOCIATION:

Institut goryuchikh iskopayemykh Akademii nauk SSSR (Institute of Mineral Fuels of the Academy of Sciences, USSR)

Card 3/4

AUTHORS:

Dubinin, M. M., Zaverina, Ye. D., Ivanova, L. S. Kaverov,

A. T., and Kasatochkin, V. I.

TITLE:

Study of the nature of the micropore structure of activated carbons. Communication 1. Activated carbons from phenol-

aldehyde resins

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

no. 1, 1961, 17-28

TEXT: The aim of the authors was to characterize the micropore structure of activated carbons by adsorption of molecules whose dimensions are comparable to those of the micropores. The present report deals with activated carbons from phenyl-aldehyde resin, whose structure has been modified considerably by treatment at various temperatures. The method of obtaining the carbon has been described previously (Refs. 11, 12). The product obtained by carbonization of the resin has been activated in a rotating quartz retort at 950°C till the loss in weight amounted to about

Card 1/3

Study of the nature of the micropore...

50%. This specimen was termed A-950. Its heating in nitrogen to 1750, 2000, and 2300°C resulted in the specimens A-1750, A-2000, A-2300. A-3000 was obtained by heating in an electric resistance furnace of the type PC -100 (RS-100). Reduction in weight was 3.21% at 1750°C, 3.50% at 2000°C, 5.53% at 2300°C, and 5.57% at 3000°C. Debye-Scherrer patterns were taken by means of a BPC-3 (VRS-3) camera; the parameters  $L_{\rm a}$  and  $L_{\rm c}$ of the carbon crystallites were determined according to R. E. Warren (Ref. 13) and the radiographic density Q was calculated from equation q = zAm/abc (Z=4, number of C atoms in the unit cell; A=12, atomic weight of C; m=1.66.10<sup>-24</sup>g, mass of the H atom; a=b=2.456 A, constants of the graphite crystal lattice in the basal surface; c=2doo2, dimension of the unit cell along axis c). Table 1 indicates the data obtained. adsorption properties of the specimens were determined in a wide range of relative pressure by means of a sorption balance for benzene, cyclohexane, and water at 20°C (Table 2). The constants of the isothermal lines of adsorption were calculated from Eq. (4) of the potential theory of adsorption:  $a = a_0' \exp \left[ (-B(T^2/\beta^2)(\log p_g/p)^2 \right]$ , where  $a_0' = W_0/v$  (5)

Card 2/3

Study of the nature of the mioropore...

corresponds to the maximum occupation of the adsorption volume  $W_0$  and v is the volume of 1 millimole of the adsorbed substance (Table 3). This carbon has a mixed structural type with two kinds of micropores as shown in Fig. 5 for benuene and A=1750. In the micropores of the first type, which correspond to a, there occurs an increase of the adsorption potential. This effect is absent in large micropores of the second type  $(a_0^m)$ . The following relation has been obtained:  $a_0^i + a_0^m = a_0^m$  (6).

ao is the adsorption occurring at the beginning of hysteresis and capillary condensation of the vapor in the intermediate pores. This value is represented in Fig. 5 by a broken vertical line:  $(p/p_B)_0 = 0.175$ . Based on the sorption isotherm, the volumes of the different types of pores were evaluated:  $v_{mi} = v_1^i + v_1^m$  are the volumes of the two types of micropores;  $v_i$  is the volume of the intermediate pores; and  $v_s$  is the total volume of pores (Table 4). Tables 6 and 7 indicate the values found for the adsorption of organic substances and electrolytes. The crystallite

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surfaces (cylindrical lateral surface  $S_1$ , basal surfaces  $S_b$ ) which were obtained from radiographical data do not coincide with calculations

Study of the nature of the micropore...

according to Brunauer, Emmett and Teller, and Langmuir (Table 8). An attempt has been made to explain the structure by the example of A-950. It is assumed that binary micropores are formed by the combustion of two superposed crystallites when the carbon is heated. a is assumed to be the specific surface of the micropores composed of the surface  $\alpha$  of the single micropores and of 1- $\alpha$  of the "binary" ones. In the single micropores, nimolecules of one vapor and nimolecules of another vapor are assumed to be adsorbed. Correspondingly, ni, nimolecules are adsorbed in the binary pores.  $\omega_1, \omega_2$  are assumed to be the areas occupied by the adsorbed molecules. The following relations have been obtained:  $\alpha \sin \frac{1}{2}\omega_1 + (1-\alpha)\sin \frac{\pi}{2}/2\omega_1 = \frac{1}{2}(11) \text{ and } \alpha \sin \frac{1}{2}/2\omega_2 + (1-\alpha)\sin \frac{\pi}{2}/2\omega_2 = \frac{1}{2}(12)$ resulting in  $\alpha = (An_2^m - n_1^m)/(An_2^m - n_1^m) - (An_2^m - n_1^m)/(15)$ , where  $A = \frac{1}{2}\omega_1/a_0^m\omega_2$  (14) and  $a = \frac{1}{2}\omega_1/(2\alpha_1 + (1-\alpha)n_1^m)/(15)$ . For A-950 one obtains  $\alpha = 0.256$  and  $\alpha = \frac{1}{2}\cos(\alpha_1/(2\alpha_1 + (1-\alpha)n_1^m)/(15)$ . For A-950 one obtains  $\alpha = 0.256$  and  $\alpha = \frac{1}{2}\cos(\alpha_1/(2\alpha_1 + (1-\alpha)n_1^m)/(15)$ . This approximative model of micropores agrees with radiographic data and reproduces the measurements of adsorption correctly. D. N. Strazhesko, S. G. Tolkachev, and I. V. Uspenskiy are thanked for

Card 4/8

Study of the nature of the micropore...

assistance. There are 5 figures, 8 tables, and 25 references: 15 Soviet-

bloc and 9 non-Soviet-bloc.

Institut fizioheskoy khimii Akademii nauk SSSR (Institute of ASSOCIATION:

Physical Chemistry, Academy of Sciences USSR). Institut goryuchikh iskopayemykh Akademii nauk SSSR (Institute of

Mineral Fuels, Academy of Sciences USSR). Institut fizicheskoy khimii Akademii nauk USSR (Institute of Physical Chemistry, Academy of Sciences UkrSSR)

SUBMITTED:

October 13, 1959

AUTHORS:

Dubinin, M. M., Zaverina, Ye. D., Kaverov, A. T., and

Kasatochkin, V. I.

TITLE:

Nature of the micropore structure of activated carbons.

Communication 2. Activated carbons from polyvinylidene

chloride

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

no. 1, 1961, 29-37

TEXT: The aim of the authors was to study the modification of the micropore structure of activated carbons brought about by physical, physicochemical, and chemical effects. The present report deals with the effect of thermal treatment on activated carbon produced from polyvinylidene chloride. The micropore structure of this carbon is not the result of the combustion of large amounts of carbon, but of the release of hydrochloric acid. Regarding the production of the carbon, Refs. 2,3 are referred to. Additional activation by CO2 up to a loss in weight of about

Card 1/8

Nature of the micropore structure of ...

10% was effected at 750°C. This specimen was termed B-750. Further thermal treatment resulted - corresponding to the temperature - in the specimens B-1300 (loss in weight 0.38%), B-1750 (loss in weight 4.00%), B-2300 (loss in weight 5.35%), and B-3000 (loss in weight 7.17%). Like in Ref. 1, the structure of the carbon crystallites was studied by means of X-rays, and  $L_c$ ,  $L_a$ ,  $d_{002}$ , and the radiographic density  $\varrho$  were determined (Table 1). Moreover, the isothermal lines of adsorption at 20°C were determined for benzene (Fig. 2) and cyclohexane (Fig. 3). Prior to the adsorption, the carbon was evacuated at 450°C and about 1.10-6 mm Hg. The substantially reduced adsorption of cyclohexane is attributed to the more complex structure of its molecules. The structural characteristics are indicated in Table 2. ami is the adsorption corresponding to the complete filling of the micropores. In the case of benzene, it occurs at a relative pressure  $p/p_8 = 0.175$ , and in the case of cyclohexane, at  $p/p_8 = 0.158$ :  $a_8$  denotes the total adsorption at  $p/p_8 = 1$ ,  $v_8$  the total volume of pores,  $v_{mi}$  the volume of the micropores, and  $v_i$  that of the intermediate pores calculated from the difference. The experimental isothermal lines were compared with the equation of the potential theory of adsorption:

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APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210017-0"

Nature of the micropore structure of ...

 $a = (W_o/v) \exp[(-B(T^2/\beta^2)(\log p_s/p)^2]$  (1). Wo is the maximum adsorption volume, B a constant dependent on the size of the micropores, and  $\beta$  the affinity coefficient. The data calculated from (1) are indicated in Table 3. It was found (Fig. 5) that at a high relative pressure, the experimental data are lower than those obtained from Eq. (1). It is assumed that the reason is either ultraporosity or non-equilibrium. Referring to a paper of R. Franklin (Ref. 7), the structure of polyvinylidene chloride carbon is explained. The micropores are slit-shaped interstices between the crystallites or individual plane graphite lattices. They give room to hardly more than 2-3 layers of adsorbed molecules. On the assumption of 41 A<sup>2</sup> occupied area for one benzene molecule and of  $38 \, \text{A}^2$  occupied area for one cyclohexane molecule, a comparison between the specific surfaces calculated by X-ray analysis, sorption, and a bidisperse model (Table 4) results in the usability of a bidisperse model; the final clarification of the character of porosity is reserved for further investigations. The difference observed in specimen B-1750 regarding the adsorption of benzene and cyclohexane is attributed to a molecular

Card 3/8

Nature of the micropore structure of. ::

screening effect. This is shown by comparison with a Linde MC-5A screen. S. G. Tolkachev and I. V. Uspenskiy are thanked for assistance. There are 5 figures, 5 tables, and 10 references: 7 Soviet-bloc and 3 non-Soviet-bloc.

ASSOCIATION:

Institut fizioheskoy khimii Akademii nauk SSSR (Institute of Physical Chemistry, Academy of Sciences USSR); Institut goryuchikh iskopayemykh Akademii nauk SSSR (Institute of Mineral Fuels, Academy of Sciences USSR)

SUBMITTED:

December 26, 1959

Card 4/8

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210017-0"

Nature of the micropore structure of ...

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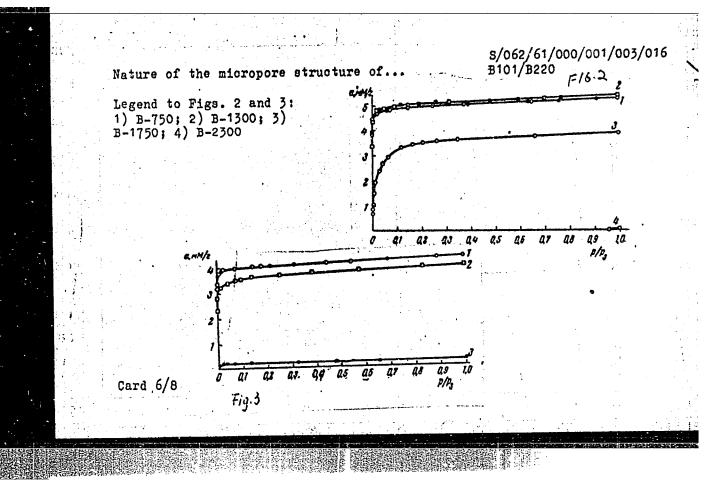
L <sub>c</sub> ,	Ā	La	,À	dans. À	ρ,
no (002)	no (004)	no (10)	no (11)		8/CM <sup>8</sup>
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B-750	C <sub>6</sub> H <sub>8</sub> C <sub>6</sub> H <sub>12</sub>	4,97 4,05	5,21 4,21	0,442 0,438	0,022 0,017	0,464 0,455 0,425
B-1300	H <sub>2</sub> O C <sub>6</sub> H <sub>6</sub> C <sub>6</sub> H <sub>13</sub>	5,04 3,63	23,6 5,30 3,85	0,448 0,392	0,023 0,024	0,471 0,416 0,337
B-1750	C <sub>6</sub> H <sub>6</sub> C <sub>6</sub> H <sub>12</sub> H <sub>2</sub> O	=	3,79 0,283 17,0			0,031 0,308
B-2300 B-3000	C.H. C.H.	=	0,031	- ··	=:	0,003

Legend to Table 1: 1) carbon.

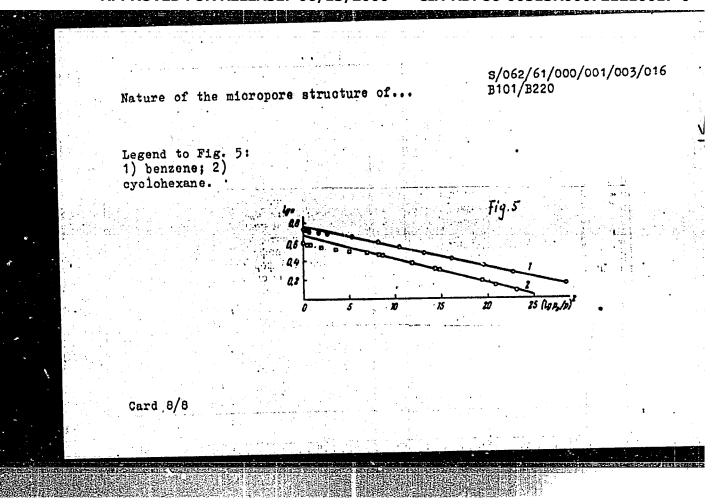
Legend to Table 2: 1) carbon; 2) vapor; 3) ami; 4) vmi; 5) Vinterm

1 Уголь



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Nature of the micropolegend to Table 3:				уравнени		1/B220 :ы адсорбц		лица З
1) vapor; 2) carbon; 3) range of validity.	A Nap	Ł Yroza	Ω <sub>ρ</sub> , μM/a	W <sub>a</sub> ca <sup>2</sup> /2	B-10*	В	Интервал пр	онменимости В
	C <sub>0</sub> H <sub>0</sub>	B-750 B-1300 B-1750 B-750 B-1300	5,94 5,75 3,31 4,79 4,65	0,527 0,510 0,204 0,517 0,503	0,482 0,597 2,23 0,482 0,597	1,00 1,00 1,00 1,07 0,94	3.10-4- 3.10-4- 4.10-4- 5.10-4- 2.10-8-	-1,3·10** -6·10** -6·10**
Legend to Table 4: 1) carbon; 2) X-ray surfaces; 3) based on sorption at	Таблица 4 Удельные поверхности углей в м <sup>2</sup> /г							
	Рентгеновские поверхности			3 по согоции при в при		4 По бидисперсной медели		
$a_m = a_{mi}$ ; 4) based on bidisperse model.	Уголь	SB	ST	s	C,H,	C <sub>i</sub> H <sub>is</sub>	s	•
Card 7/8	B-750 B-1300 B-1750 B-2300 B-3000	920 810 730 480 360	1350 1300 1030 910 500	2270 2110 1760 1390 860	1220 1250 940 <8 <8	870 830 <45—90°	980 840	0,246 0,02



APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210017-0"

LEVISHCHEV, A.N., inzh.; ZHENISHEK, V.Ye., inzh.; KAVERZIN, V.A., inzh.

Filter press IIM72-1000/45 with a hydraulic discharge of residue for the filtration of monochromic solutions. Khim. mash. no.4:41-44

Jl-Ag '61. (Filters and filtration)

KAVERZNEVA, K. [Karerznieva, K.], doktor khim.nauk (Moskva)

Mysteries of life. Nauka i zhyttia 12 no.6:34-36 Je 162.

(Proteins)

SKURKOVICH, S.V.; RUTBERG, R.A.; MAKHONOVA, L.A.; KAVERZNEVA, M.M.; MALLER, A.R.

Plasmoleucothrombocytapheresis in children with acute leukemia during the remission period. Probl. gemat. 1 perel. krovi no.2:23-26 '65. (MIRA 18:11)

1. TSentral'nyy ordena: Lenina institut gematologii 1 perelivaniya krovi (dir. - dotsent A.Ye.Kiselev) i Gorodskaya klinicheskaya detskaya bol'nitsa No.1 (glavnyy vrach N.S.Bonova), Moskva.

USSE

# KAVERZNEVA, M. M.

Use of some antitumor antibiotics for the treatment of leukoses.

Probl. gemat. i perel. krovi 7 no.7:31-39 J1 162.

(MIRA 15:7)

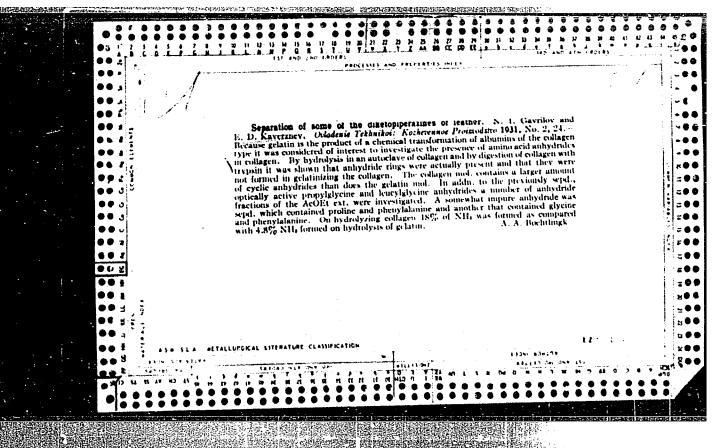
1. Iz gematologicheskoy kliniki (zav. - prof. M. S. Dul'tsin)
TSentral'nogo ordena Lenina instituta gematologii i perelivaniya
krovi (dir. - dotsent A. Ye. Kiselev) Ministerstva zdravookhraneniya SSSR.

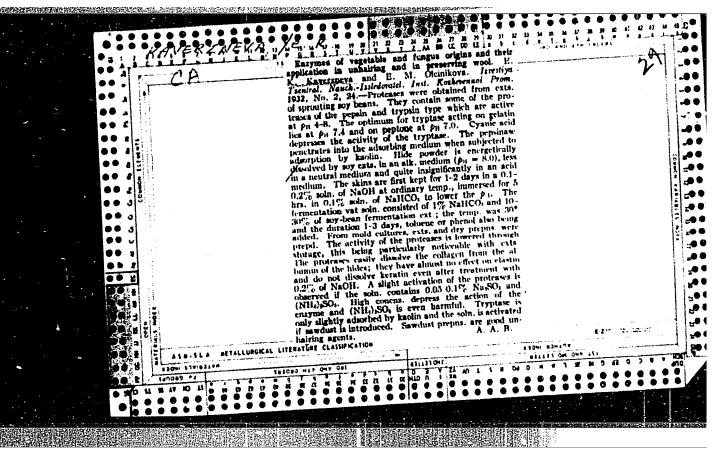
(LEUKEMIA) (ANTIBIOTICS)

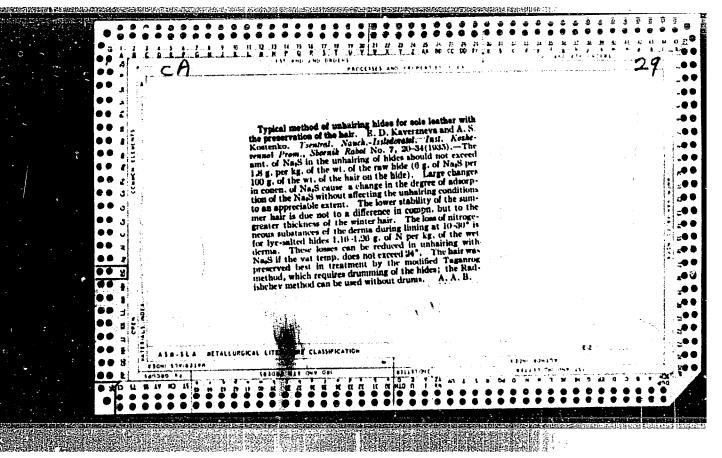
# KAVERZNEVA, M.M.

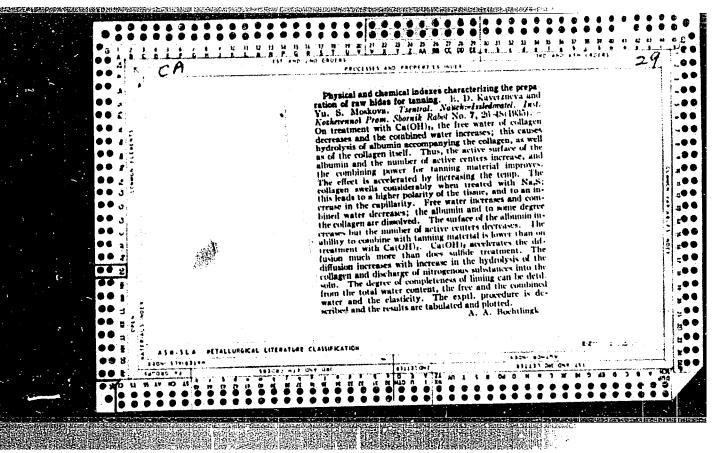
Use of the antineoplastic antibiotics olivomycin (16749) and 6613 in the treatment of leukėmia. Problemy gemat. i perel. krovi 8 no.8:22-25 Ag \*63. (MISA 17:8)

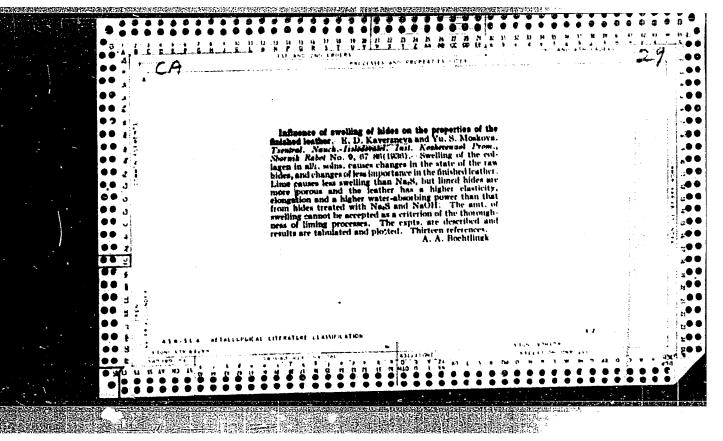
1. Iz genatologicheskoy kliniki (zav. - prof. M.S. Dul'tsin)
TSentral'nogo ordena Lenina instituta gematologii i perelivaniya
krovi (dir. - dotsent A.Ye. Kiselev) Ministerstva zdravookhraneniya
SSSR.



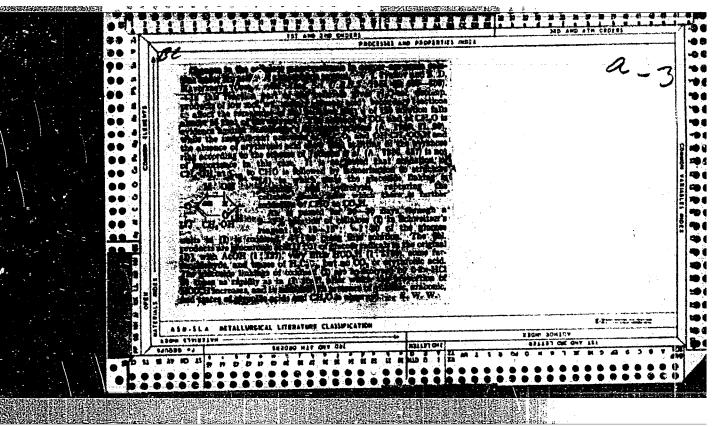


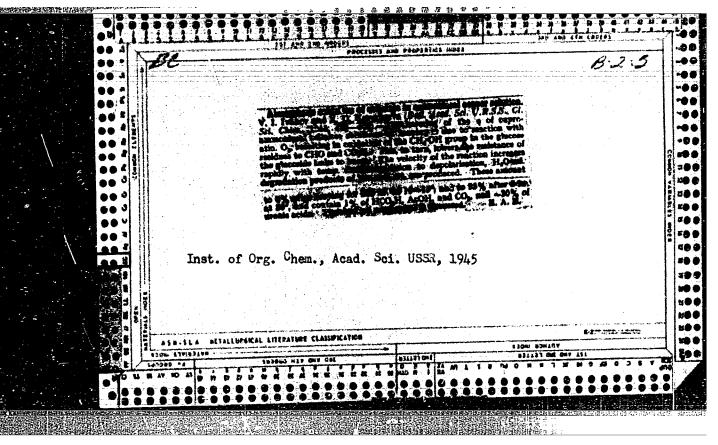


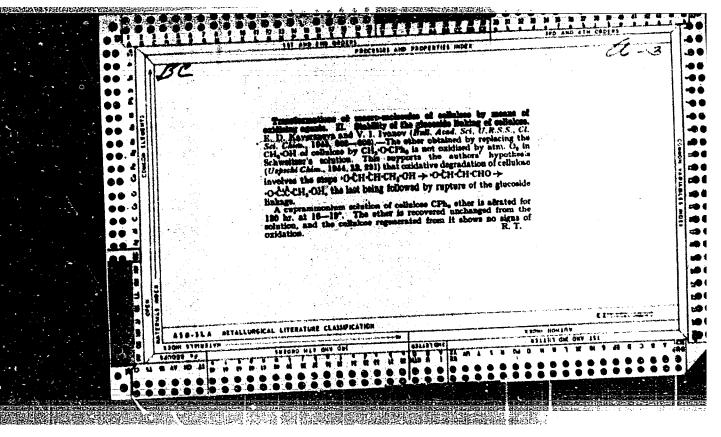




"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721210017-0







KAVERZNEVA, YE. D.

Ivanov, V.I. and <u>Kaverzneva</u>, <u>Ye. D</u>. "Reaction capacity of hydroxyl radicals of cellulose and the extraction of 6- desoxycelluloses," in symposium: Issledovaniya v oblasti tsellyulozy i yeye sputnikov, Moscow-Leningrad, 1948, p. 56-63 - Bibliog: 5 items

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949

KAVERZNEVA, YE. D.

Ivanov, V.I. and <u>Kaverzneva. Ye. D.</u> "Acidification of collulose in a cupric-ammonium solution," in symposium: Issledovaniya v oblasti tsellyulozy i yeye sputnikov, Moscow-Leningrad, 1948, P. 81-87 - Bibliog: p. 86-87

50: U-2888, Letopis Zhurnal nykh Statey, No. kl. 1949

PA 63/49T1(

KAVERZNEVA, YE. D.

USSR/Chemistry - Bynthesis Jul/Aug 49 Chemistry - Desoxycellulose

"Synthesis of 6-Desoxycellulose," Ye. D.
Kaverzneva, V. I. Ivanov, A. S. Salova, Inst of
Org Chem, Acad Sci USSR, 92 pp

"Iz Ak Nauk SSSR, Otdel Khim Nauk" No 4

Describes defferent methods of preparing this compound, and shows that the highest degree of conversion of a primary alcohol into a methyl group with the lowest degree of destruction of the macromolecule is obtained by conducting the synthesis through the stage of unsaturated desoxysis through the stage of unsaturated desoxyderivate of cellulose. Submitted 12 Jul 48.

KAVERZNEVA, Ye. D.

"Ketone Groups in the Oxyl Malecule of Cellulose," Dok. AN, 68 No.5, 1949.

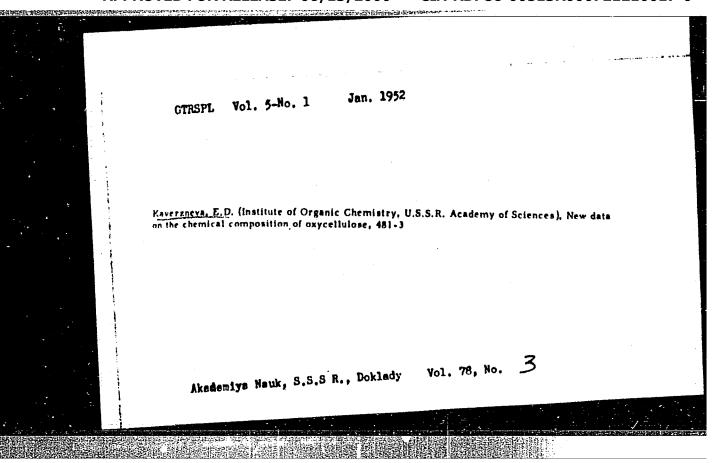
KAVERZNEVA, Ye. D., KURSANOV, D.N., KABACHNIK, M.I., PRILEZHAYEVA, Ye.N., SOKOLOV, N.D. and FREYDLINA, R.Kh.

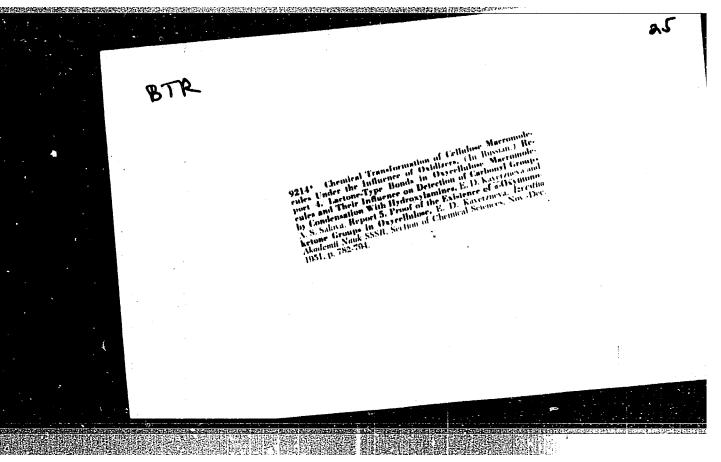
"The Current State of Chemical Structure," Usp.Khim., 19, No.5, pp 529-544, 1950.

Translation W-16104, 30 Dec 50

Ch., Lab. Rellulose and LIgnin, Inst. Organic Chem., Dept. Chem. Sci., Acad. Sci., 1949-.

Acting Ch., Lab Chemistry, Dept. Physiological Albumiand Products Albuminous Conversions, Inst. Physiol., Dept. Medico-Biol. Sci., Acad. Med. Sci., 1946





K KAVERZNEVA, YE.D

23

CA

Chemical transformations of the macromolecule of celluione under the action of exidizing agents. VI. The pressone in expeclipleous of the groupings of carbonic esters and their offset on the determination of uronic carbonylic groups. E. D. Kaverzuseva, V. I. Ivanov, and A. S. Sakova. Trevi. Ikud. Nauk S.S.S.R., Odd. Khim. Nauk 1952, 185-9; cf. Ibid. 1951, 782.—The results of detn. of total and uronic carbonyl groups in oxycelluloses (1) do not agree when peulucts oxidized by NaOCI in acid or neutral media are compared. The cause for the deviation lies in participation of lactonized groups carbonyls and the presence of small amis, of carbonyle esters. The latter are very unstable and are

readily hydrolyzed by dil. alkalies in the cold or by acida on warning; these groups may be responsible for low stability of I produced by acidic oxidation. Builing pure cotton with 12% HCl leads to evolution of but 0.04% CO, (by wt.). Similarly treated urmic compds, liberate CO, rather slowly and do not affect detans, such as those of uronic acids which can be completed by refluxing 5 hrs. The evolution of CO, from such treatment of I shows a distinct break after 5 hrs. and the slow continuing reaction is almost absent in specimens prejid, in alk, medium. The purely much, causes were shown to be inoperative in suitable expts. The carbonate unit can be formed by oxidation of the C atom addition to the O atom in the ring structure of the secharide.

# APPROVED FOR RELEASE: 06/13/2000

Journal of Applied Chemistry May 1954 Fibers CIACHED PSG-0051 3R000/DS 24300 Picil by oxidants. VII. Chemical transformations of cellulose during its oxidation by sodium hypochlorite, E. D. KANCTRUYA, V. J. Vanloy, and A. S. Saloya, (Izvestia, 1952, No. 4, 751-762;—Quantitative micromethods are described whereby it is established that the oxycelluloses formed by NaClO oxidation contain uronic and non-uronic -COOH, -CHO (on C<sub>4</sub>), a-hydroxyketonic, lactone, and esterified -COOH groups; the products of acid and neutral oxidations are similar and differ from these of alkaline oxidations. Mechanism of oxidative breakdown of cellulose at different pH are outlined.

R. C. Murkay

KAVERZNEVA, Ya. D.

11 Sep 52

USSR/Chemistry - Cellulose

"Primary Oxidation Changes in Cellulose Due to Hydrogen Peroxide," V. I. Ivanov, Yo. D. Kaverzneva, Z. I. Kugnetsova, Inst of Org Chem, Acad Soi USAR

"Dok Ak Rauk CSSR" Vol 86, No 2, pp 301-304

The primary change in the claple members of the cellulose macromol during the action of hydrogen peroxide is conversion to a glucosome structure. Depending on the Fig. the surrounding groups will undergo changes described in previous work. Fresented by Acad A. N. Nesmeyanov.

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"KHIMIYA OKISLITEL'NYKH PREVRASHCHENIY TSELLYULOZY"

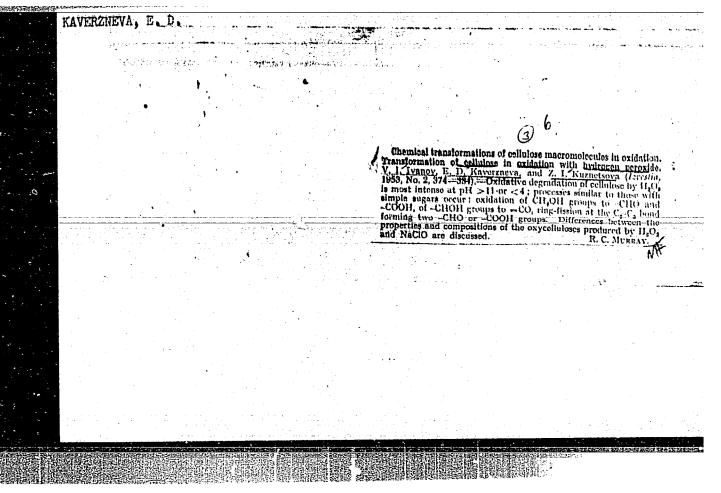
by KAVERZHEVA, Te. D., Institute Organic Chemistry, Academy of Sciences SSSR, Moscow, USS

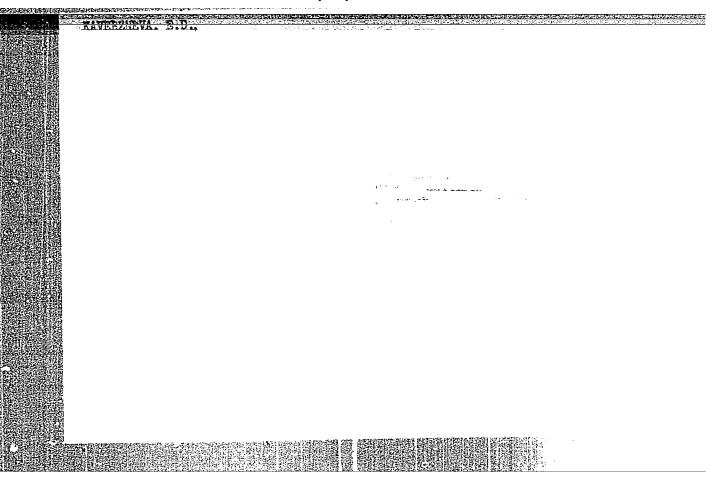
SO: ABSTRACTS OF PAPERS, XIII International Congress of Pure and Applied Chemistry, Stockholm, July 29-Aug 4, 1953
Uppsala, Aug 5 to 7, 1953
p. 232

Stockholm, 29 Jul - 4 Aug 53

### KAVERZNEVA, Ye. D.

"Les transformations chimiques de la cellulose sous l'action des oxydants,"
A paper presented at the 13th Intl. Congress of Pure and Applied Chemistry,





KAVERZNEVA, Ye.D., doktor khimicheskikh nauk.

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International Congress on Theoretical and Applied Chemistry. Vest.AE SSSR 23 (NURA 6:21) no.10:85-89 0 53. (Chemistry-Congresses)

KAVERINEVA, Ye.D.; IVANOV, V.I.; SALOVA, A.S.

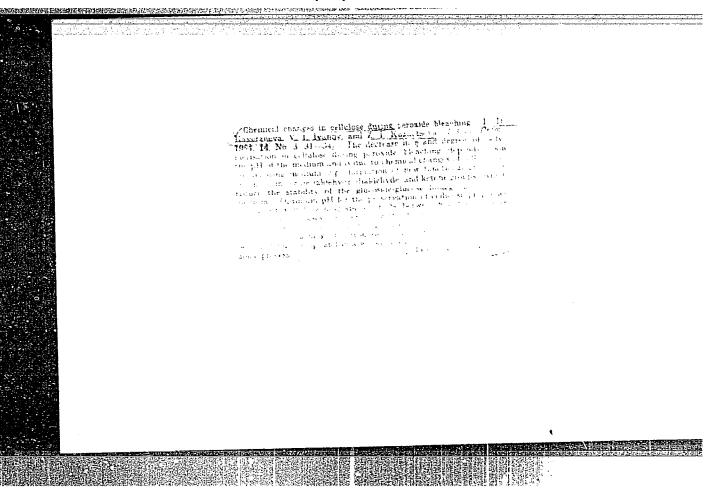
Chemical transformations of cellulose in the hypochlorite treatment process. Burn.prom. 28 no.716-11 Jl '53. (MLRA 6:7)

1. Institut organicheskoy khimii Akademii nauk SSSR.
(Cellulose) (Sodium hypochlorite)

KAVERZNEVA, Ye. D. RELIESKIY, N.D., akademik; KOCHESHKOV, K.A., redaktor; KAVERZHEVA, Ye.D., dokter khimicheskikh nauk, redakter; IZVIHA, R.Ya., redakter; YUR'YEV, Yu.K., redaktor. [Collected works] Sobranie trudev. Hoskva, Isd-ve Akademii nauk

SSSR. Vol. 1. 1954. 514 p.

1. Chlen-kerrespondent AN SSSR (for Kocheshkev) (Chemistry--Cellected works)



ZELINSKIY, N.D.; KAZAHSKIY, B.A., akademik; BALANDIN, A.A., akademik; KOCHESHKOV, K.A.; SHUYKIN, N.I.: KAVERZHEVA, Ye.D., doktor khimicheskikh nauk; LEVINA, R.Ya., doktor; khimicheskikh nauk; PLATE, A.F.; doktor khimicheskikh nauk; RUBINSHTEYN, A.M. doktor khimicheskikh nauk; YUR'YEV, Yu.K., doktor khimicheskikh nauk.

[Collected works] Sobranie trudov. Moskva, Izd-vo Akad.nauk SSSR. (MLRA 8:8)

1. Chlen-korrespondenty AN SSSR (for Kocheshkov, Shuykin),